

CLAIMS

I claim:

1. A method for screening for a transdominant intracellular bioactive agent capable of altering the phenotype of a cell, said method comprising the steps:
- 5 a) introducing a molecular library of randomized candidate nucleic acids into a plurality of cells, wherein each of said nucleic acids comprises a different nucleotide sequence;
- b) screening said plurality of cells for a cell exhibiting an altered phenotype, wherein said altered phenotype is due to the presence of a transdominant bioactive agent.
- 10 2. A method according to claim 1 further comprising the step:
- c) isolating said cell exhibiting an altered phenotype.
3. A method according to claim 2 further comprising the step:
- d) isolating a candidate nucleic acid from said cell.
- 15 4. A method according to claim 2 or 3 further comprising the step:
- e) isolating a target molecule using
- i) a candidate nucleic acid; or
- ii) the expression product of a candidate nucleic acid.
- 20 5. A method according to claim 1 wherein said randomized candidate nucleic acids are expressed in said cells to produce a plurality of randomized candidate expression products.
6. A method according to claim 5 wherein said randomized candidate expression products are peptides.
7. A method according to claim 5 wherein said randomized candidate expression products are nucleic acid transcripts.
- 25 8. A method according to claim 1 wherein said nucleic acids further comprise a presentation sequence capable of presenting said expression product in a

conformationally restricted form.

9. A method according to claim 1 wherein said introducing is with retroviral vectors.
10. A method according to claim 1 wherein said cells are mammalian cells.
- 5 11. A method according to claim 1 wherein said library comprises at least 10^4 different nucleic acids.
12. A method according to claim 1 wherein said library comprises at least 10^5 different nucleic acids.
- 10 13. A method according to claim 1 wherein said library comprises at least 10^6 different nucleic acids.
14. A method according to claim 1 wherein said library comprises at least 10^7 different nucleic acids.
- 15 15. A method according to claim 1 wherein said library comprises at least 10^8 different nucleic acids.
16. A molecular library of retroviruses comprising at least 10^4 different randomized nucleic acids.
17. A molecular library of retroviruses according to claim 21 comprising at least 10^5 different randomized nucleic acids.
- 20 18. A molecular library of retroviruses according to claim 21 comprising at least 10^6 different randomized nucleic acids.
19. A molecular library of retroviruses according to claim 21 comprising at least 10^7 different randomized nucleic acids.
20. A molecular library of retroviruses according to claim 21 comprising at least

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21. A cellular library of mammalian cells containing a molecular library of retroviral constructs, said molecular library comprising at least 10^4 different randomized nucleic acids.
22. A cellular library according to claim 21 wherein said constructs are integrated into the cellular genome.

1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100